ARCHITECTS AND ENGINEERING CONSULTANTS

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Date:

BRUHATH BANGALORE MAHANAGARA PALIKE

CONSTRUCTION OF GYM ROOM EXISTING SWIMMING POOL OFFICE BUILDING & OTHER DEVELOPMENT WORKS IN ALLALASANDRA WARD NO.04 YELAHANKA

ABSTRACT OF ESTIMATE

BASED ON SR-2018-2019

Sl .N	DESCRIPTION OF WORK	AMOUNT IN RS
1	**Civil Works**	
a	Gym Building	8846009.59
b	Gym Equipments	3923577.00
	TOTAL	**12769586.59**
2	Plumbing works	**166344.84**
3	Electrical Works	109788.00
	SUB TOTAL	**13045719.43**
4	Contractor GST 12%	1565486.33
5	DPR Charges @ 1.00%+Gst 18%	153939.49
6	PMC Charges @ 1.50%+Gst 18%	230909.23
	TOTAL	**14996054.48**
7	Misselineous	3945.52
	GRAND TOTAL	**15000000.00**

Administrative Approval
Accorded For Rs.150.00 lakhs
Head of A/C 27643
CER NO :84 Dt:26/02/2021
E.E. (Project)

For NANDISH ASSOCIATES,

(K.C. NANDISH)

NANDISH ASSOCIATES ARCHITECTS ENG. CONSULTANTS

Technical Sanction
Accorded For Rs 150.00 lakhs
Head of A/C. 2693 11-02-2021
CER NO :293 Dt:
AE
EE (YLK)

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BRUHAT BANGALORE MAHANAGARA PAILKE

CONSTRUCTION OF GYM ROOM EXISTING SWIMMING POOL OFFICE BUILDING & OTHER DEVELOPMENT WORKS IN ALLALASANDRA WARD NO.04 YELAHANKA

GYM BUILDING

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
1	Levelling course using Flexible Cementatious Material A concrete mix in the ratio 1:1.5:3 (1:cement : 1.5 quartz powder : 3 graded stone) is laid to make haunch at junction of parapet and roof slab and at damaged portions to drain off water. The factory made dry CEMENTATIOUS silica sand power consisting of dry cement mortar (1 cement : 4 silica sand) shall be mixed with additives like ISOPROOF chemical and acrylic polymer and water to arrive at workable consistency. The same shall be applied over the prepared surface to give even surface and act as base for geotextile fabric.								
	S.R.page 276 item 38.3								
		1	6.90	6.50		44.85			
		1	6.90	7.40		51.06			
		1	23.50	14.10		331.35			
						427.26	**Sqm**	**1058.40**	**452211.98**
	Basic Rate:	980.00							
	Area Weightage @ 8%	78.40							
	Total	1058.40							
2	Providing **T.M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.**TMT Bars Fe 550**								
						2.18	Cum		
	For Lintel					0.02			
	at 1.0%					171.44	kg		
	@ 7850 kg/cmt					**0.17**	**MT**		
						1.50	Cum		
	For Chajja					0.02			
	at 1.0%					117.75	kg		
	@ 7850 kg/cmt					**0.12**	**MT**		
						0.29	**MT**	**78047.28**	**22570.81**
	Basic Rate:	71518.00							
	Add: Lift Charges for First Floor	748.00							
	Total	72266.00							
	Area Weightage @ 8%	5781.28							
	Total	78047.28							
3	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800 kg/m3 Having aq minimum average compressive strength of 5.00 N.mm2 confirming to IA 2185 (Part q) 2005 and constructed with CM 1:4 as [er IS 2572:2005 including cost of all materials labour charges, scaffolding. curing hire charges of machineries etc as per specifications **Solid concrete blocks of Size 400x200x200 mm**								
	S.R Page no 27, item no 5.27.1								
		1	31.00	3.00		93.00			
		3	14.10	3.00		126.90			
		2	6.30	3.00		37.80			
		1	3.90	3.00		11.70			
		1	6.75	3.00		20.25			
						289.65			
	Deduction for Openings								

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	GD	1	1.20	2.40		2.88			
	D1	3	1.00	2.10		6.30			
	W	9	2.50	1.50		33.75			
	W1	2	2.00	1.50		6.00			
	V	2	1.50	0.60		1.80			
	V1	5	0.90	0.60		2.70			
	G - Change Room Opening	1	1.50	2.10		3.15			
	Deduction For Lintel Concrete								
	GD	1	1.60	0.20		0.32			
	D1	3	1.40	0.20		0.84			
	W	9	2.90	0.20		5.22			
	W1	2	2.40	0.20		0.96			
	V	2	1.90	0.20		0.76			
	V1	5	1.30	0.20		1.30			
						65.98			
						223.67	**Sqmt**	**1022.76**	**228760.73**
	Basic Rate:	912.00							
	Add: Lift Charges for First Floor	35.00							
	Total	947.00							
	Area Weightage @ 8%	75.76							
	Total	1022.76							
4	Providing and constructing **non load bearing wall with solid concrete blocks of size 400x100x200mm** having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications.								
	S.R Page no 27, item no 5.28								
		1	6.90	3.00		20.70			
		1	4.35	3.00		13.05			
		1	4.35	2.40		10.44			
		1	2.40	2.40		5.76			
		4	1.20	2.40		11.52			
		2	1.50	2.40		7.20			
		1	0.75	1.50		1.13			
		1	1.50	1.50		2.25			
						72.05			
	Deduction for Openings								
	D2	8	0.75	2.10		12.60			
	Opening	1	1.50	2.10		3.15			
	Deduction For Lintel Concrete								
	D2	8	1.15	0.20		1.84			
						17.59			
						54.46	**Sqmt**	**913.68**	**49754.44**
	Basic Rate:	811.00							
	Add: Lift Charges for First Floor	35.00							
	Total	846.00							
	Area Weightage @ 8%	67.68							
	Total	913.68							
5	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of **ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc**., for all super structure works with all lead and liftetc., complete. (exculsive of cost of steel and fabricationcharges)								
	S.R.page 19 item 4.49/4.49.1								
	Lintel								
	D	1	1.60	0.20	0.20	0.06			
	D1	3	1.40	0.20	0.20	0.17			
	D2	8	0.95	0.20	0.20	0.30			

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	W	9	2.90	0.20	0.20	1.04			
	W1	2	2.40	0.20	0.20	0.19			
	V	2	1.90	0.20	0.20	0.15			
	V1	5	1.30	0.20	0.20	0.26			
						2.18	Cum	**5944.32**	**12982.39**
	Basic Rate:	5444.00							
	Add: Lift Charges for First Floor	60.00							
	Total	5504.00							
	Area Weightage @ 8%	440.32							
	Total	5944.32							
6	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.5175cum and fine aggregtes @ 0.345cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain **chajja of 7.5 cms**. average thickness, upto ground floor level, including cost of all materials, labour,HOM of machinery, finishing, curing, complete as per specifications								
	S.R Page no 14, item no 4.19								
	Chajja Concrete								
	W	7	2.50	0.60		10.50			
	V	2	1.50	0.60		1.80			
	V1	5	0.90	0.60		2.70			
						15.00	Sqmt	**481.68**	**7225.20**
	Basic Rate:	440.00							
	Add: Lift Charges for First Floor	6.00							
	Total	446.00							
	Area Weightage @ 8%	35.68							
	Total	481.68							
7	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and **lintels** not exceeding 1m in depth including cost of all materials, labour complete as per specificaitons.								
	S.R.page 17 item 4.35								
	Lintel								
	D	1	1.60	0.60		0.96			
	D1	3	1.40	0.60		2.52			
	D2	8	0.95	0.60		4.56			
	W	9	2.90	0.60		15.66			
	W1	2	2.40	0.60		2.88			
	V	2	1.90	0.60		2.28			
	V1	5	1.30	0.60		3.90			
						32.76	Sqmt	**462.24**	**15142.98**
	Basic Rate:	403.00							
	Add: Lift Charges for First Floor	25.00							
	Total	428.00							
	Area Weightage @ 8%	34.24							
	Total	462.24							
8	Providing and removing centering, shuttering, strutting, propping etc., **for chajjas**, corbels e tc., including edges including cost of all materials, labour complete as per specificaitons.								
	S.R.page 17 item 4.37								
	Chajja Concrete								
	W	7	2.50	0.60		10.50			
	V	2	1.50	0.60		1.80			
	V1	5	0.90	0.60		2.70			
						15.00	Sqmt	**375.84**	**5637.60**
	Basic Rate:	323.00							
	Add: Lift Charges for First Floor	25.00							
	Total	348.00							

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	Area Weightage @ 8%	27.84							
	Total	375.84							
9	Providing and Constructing Standard **Rubber Flooring for Indoor Areas using Rubber Memberain of 12mm to 16mm thick,** to be layed over Prepared Cement Morter/Concrete surface using CM 1:6 Beneath rubber memvrain including cost of all materials, labour,packing joints and mortar, finishing, curing all lead & lift , transportation and also including all applicable taxes etc., complere as per firection of Engineer in Chrage of Work								
	Market Rate								
		1	290.00			290.00			
						290.00	Sqmt	**4842.00**	**1404180.00**
								M.R	
10	Providing 18mm thick **Internal cement plaster** in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.								
	S.R Page no 116, item no 15.15								
	Staircase wall	4	6.30	3.00		75.60			
		2	3.90	3.00		23.40			
	Gym	2	23.50	3.00		141.00			
		2	14.10	3.00		84.60			
	G- Change Room	4	6.90	3.00		82.80			
		2	5.60	3.00		33.60			
	WC	2	2.40	2.40		11.52			
		4	1.20	2.40		11.52			
	Shower	2	4.35	2.40		20.88			
		4	1.50	2.40		14.40			
		2	0.90	1.50		2.70			
	L- Change Room	2	6.90	3.00		41.40			
		2	4.35	3.00		26.10			
	WC	2	4.35	2.40		20.88			
		4	1.20	2.40		11.52			
		2	1.60	1.50		4.80			
						606.72			
	Deduction For Openings								
	GD	1	1.20	2.40		2.88			
	D1	3	1.00	2.10		6.30			
	D2	8	0.75	2.10		12.60			
	W	9	2.50	1.50		33.75			
	W1	2	2.00	1.50		6.00			
	V	2	1.50	0.60		1.80			
	V1	5	0.90	0.60		2.70			
						66.03			
						540.69	Sqmt	**304.56**	**164672.55**
	Basic Rate:	276.00							
	Add: Lift Charges for First Floor	6.00							
	Total	282.00							
	Area Weightage @ 8%	22.56							
	Total	304.56							
11	Providing 18mm thick cement plaster in single coat with **cement mortar 1:4,** to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge.for **Outside Plastering**								
	S.R Page no 116, item no 15.16								
	Outer wall	1	31.00	3.00		93.00			
	Sides wall	2	14.35	3.00		86.10			
						179.10	**Sqmt**	**294.84**	**52805.84**
	Basic Rate:	261.00							
	Add: Scaffolding Charges for First Floor	12.00							

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	Total	273.00							
	Area Weightage @ 8%	21.84							
	Total	294.84							
12	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers including cost of all materials cost oif labour and scaffolding etc complete as per the specifications								
	S.R.page 128 Item 15.106								
	Ceiling+Internal								
						540.69	Sqmt	84.24	45547.73
	Basic Rate:	78.00							
	Area Weightage @ 8%	6.24							
	Total	84.24							
13	Providing and applying painting in two coats with plastic Emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications and as per the directions of the Engineer in charge. **(with Primer)**								
	S.R.page 119 item15.51.2								
	Ceiling+Internal								
						540.69	Sqmt	97.20	52555.07
	Basic Rate:	90.00							
	Area Weightage @ 8%	7.20							
	Total	97.20							
14	Providing and finishing **external walls in two coats with waterproof cement paint** of approved brand and shade to givean even shade after throughly brooming the surface to remove all dirtand loose powdered material, free from mortar drops and other foreign matter cost of materials, labours,complete as per specifications.								
	S.R Page no 120, item no 15.53.2								
	External Wall					179.10			
						179.10	Sqmt	114.48	20503.37
	Basic Rate:	102.00							
	Add: Scaffolding Charges for First Floor	4.00							
	Total	106.00							
	Area Weightage @ 8%	8.48							
	Total	114.48							
15	Providing and fixing **Double shutter glass door of 12mm thick** frosted toughened glass of approved make. The door is fixed by using any approved make hardware fitting like patch fitting, pivot, floor machine, locking arrangements and suitable SS door rails with floral glass etching for 1/3 portion of door area etc complete. The rate includes cost of all materials, labour, hire of tools & machineries, as per specifications etc complete. The rate includes cost of all materials, labour, hire of tools & machineries, as per specifications.								
	S.R.page 325 Item No.39.8								
	GD	1	1.20	2.40		2.88			
						2.88	Sqm	9188.64	26463.28
	Basic Rate:	8508.00							
	Area Weightage @ 8%	680.64							
	Total	9188.64							
16	Providing **Sal wood frames of doors,** windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM complete as per specifications.								
	S.R.page 53 Item No.9.13								

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	D								
		6	1.25	0.13	0.15	0.14			
		6	2.10	0.13	0.15	0.24			
	Basic Rate:					**0.38**	Cum	**65391.84**	**24644.55**
	Area Weightage @ 8%	60548.00							
	Total	4843.84							
		65391.84							
17	Providing and fixing factory made splendoor of solid core single leaf rigid composite polymer laminated sal wood, door shutter of required thickness, manufactured out of solid core door conforming to IS 2202 (Part-1) 1991, laminated with 0.8 mm thick polymer, termite, water resistant and fire retardant with superior gluing based on vacuum lamination technology and with various pre moulded design on both faces conforming to IS 6307-1985, using adhesive conforming to IS 4835-1979 and door shuters tested in conformation to IS 4020-1994. The finish of shutters will be TEAK/CEDAR/ROSE WOOD/WALNUT, plain colurs WHITE/IVORY/BEIGE/LIGHT GREY. Excluding cost of fixtures and inclusive of supply of shutters to respective work spot. **with door shutter 35mm thick**								
	S.R.page 61 item 9.90.2								
	D1	3	1.00	2.10		6.30			
						6.30	Sqmt	**4108.32**	**25882.42**
	Basic Rate:	3800.00							
	Add: Lift Charges for First Floor	4.00							
	Total	3804.00							
	Area Weightage @ 8%	304.32							
	Total	4108.32							
18	Providing & fixing factory made **SOLID PVC Door frame of size 50x47mm** with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge.								
	S.R.page 60,.No.9.84								
	D2	8	0.75	2.10		12.60			
						12.60	Sqm	**509.76**	**6422.98**
	Basic Rate:	468.00							
	Add: Lift Charges for First Floor	4.00							
	Total	472.00							
	Area Weightage @ 8%	37.76							
	Total	509.76							
19	**SOLID PANEL PVC DOOR SHUTTER** Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm for styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 m.m Aluminium hinges.								
	S.R.page 60 I,.No.9.83								
	D2	8	0.75	2.10		12.60			
						12.60	Sqm	**3003.48**	**37843.85**
	Basic Rate:	2777.00							
	Add: Lift Charges for First Floor	4.00							
	Total	2781.00							
	Area Weightage @ 8%	222.48							
	Total	3003.48							

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
20	**Fixing of frames** in an existing opening including embeeding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour charges, complete as per specifications.								
	S.R.page 60 Item,.No.9.80								
	Basic Rate:	11				11.00			
	Add: Lift Charges for First Floor	1366.00				**11.00**	**Nos**	**1479.60**	**16275.60**
	Total	4.00							
	Area Weightage @ 8%	1370.00							
	Total	109.60							
		1479.60							
21	**3 track x 2 Panel with mesh Specification for UPVC windows** Providing & fixing of 3track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPV(Thermo Plastic Vulcanized) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame havinga overall size of 108mm width x 45mmheight with reinforcement of 1mm thickness and Sash with overall size of 39mm x 75mm with GI reinforcement of 2mm and mesh sash of size 30mm x 48.5mm. Glazing bead for fixing of glass shall be of size 20mm x 24mm. Windows shall be provided with 5mm plain float glass, standard hardware& single point locking system with touch lock. Wall thickness of frame & sash shall be of 2mm-2.5mm. Maximum possible size – 2419mm x 2119mm.								
	S.R.page 309 Item,.No.38.44.7								
	W								
	W1	9	2.50	1.50		33.75			
		2	2.00	1.50		6.00			
	Basic Rate:					**39.75**	**Sqm**	**6129.00**	**243627.75**
	Area Weightage @ 8%	5675.00							
	Total	454.00							
		6129.00							
22	**Specification for UPVC ventilator with fixed Louvers** Providing & fixing of louvered ventilator made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPV(Thermo Plastic Vulcanized) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness.Louver clip in Aluminium (powder coated in white) will be used on the frame along with plastic parts for fixing the 4 mm pin head glass. Wall thickness of frame shall be 2mm.Maximum possible size – 1000mm x1000mm.								
	S.R.page 308 Item,.No.38.44.2								
	V	2	1.50	0.60		1.80			
	V1	5	0.90	0.60		2.70			
						4.50	**Sqm**	**3922.56**	**17651.52**
	Basic Rate:	3632.00							
	Area Weightage @ 8%	290.56							
	Total	3922.56							
23	Providing and fixing **M.S.grill work for windows and ventilators** using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM complete as per specifications.								
	S.R.page No.34 Item 7.9								
	W	9	2.50	1.50		33.75			
	W1	2	2.00	1.50		6.00			
	V	2	1.50	0.60		1.80			

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	V1								
		5	0.90	0.60		2.70			
	44.25Sqmt x 21 Kgs Per sqmt = 929.25Kgs					**44.25**	**Sqmt**		
	Basic Rate:					**929.25**	**Kgs**	**109.08**	**101362.59**
	Add: Lift Charges for First Floor	95.00							
	Total	6.00							
	Area Weightage @ 8%	101.00							
	Total	8.08							
		109.08							
24	Providing and fixing **Vitrified glazed tiles** of approved make, quality & colour of size 900 x 900 x 12mm thick fixed on bed of 12mm thick cement mortar for flooring, skirting and jointed with neat cement slurry mixed with pigment to mach shade of tiles, including providing spacers at required interval and removing stains, including cost of all mateirals, mortar, labour, etc., Complete as per specification.								
	S.R Page no 109, item no 14.45								
	Gym								
		1	23.50	8.40		197.40			
		1	17.20	5.70		98.04			
		1	1.80	6.30		11.34			
	Basic Rate:					**306.78**	Sqmt	**974.16**	**298852.80**
	Add: Lift Charges for First Floor	900.00							
	Total	2.00							
	Area Weightage @ 8%	902.00							
	Total	72.16							
		974.16							
25	Providing and fixing skirting of 300mm height using prepolished water cut/gang saw of 19mm thick grey granite 0.5mm wide chamfered width and depth and fixing in CM 1:4 of 20mm thick after chipping the walls etc., including cost of all materials, mortar, labour, curing etc., complete as per specification.								
	S.R.page 110 item 14.50								
	Vitirified Tiles								
						61.36			
	Basic Rate:					**61.36**	m	**821.88**	**50427.27**
	Add: Lift Charges for First Floor	759.00							
	Total	2.00							
	Area Weightage @ 8%	761.00							
	Total	60.88							
		821.88							
26	Providing **Ceramic tiles** of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. for **Ceramic Tiles of size 30x30cms 6mm thick**								
	S.R.page 108 item 14.36.2								
	G- Change Room	1	6.90	5.60		38.64			
	G- Toilets	1	6.90	4.35		30.02			
	L- Change Room	1	3.40	4.35		14.79			
	L- Toliet	1	3.40	4.35		14.79			
						98.24	Sqmt	**1308.96**	**128585.69**
	Basic Rate:	1210.00							
	Add: Lift Charges for First Floor	2.00							
	Total	1212.00							
	Area Weightage @ 8%	96.96							
	Total	1308.96							
27	Providing skirting, dadoing, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications.**Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 10 cms**								

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	S.R.page 108 item 14.41.2								
	G - Toliet								
		1	6.90	2.40		16.56			
		1	1.45	2.40		3.48			
	WC	1	4.00	2.40		9.60			
		3	2.40	2.40		17.28			
	Shower	5	1.20	2.40		14.40			
		3	4.35	2.40		31.32			
	L-Change Room	5	1.50	2.40		18.00			
		1	2.45	1.35		3.31			
	L- Toliet	2	3.40	2.40		16.32			
		2	3.40	2.40		16.32			
	WC	2	4.35	2.40		20.88			
		3	4.35	2.40		31.32			
		4	1.20	2.40		11.52			
	Deductions					**210.31**			
	D3								
	V	8	0.75	2.40		14.40			
	V1	2	1.50	0.60		1.80			
	Opening	5	0.90	0.60		2.70			
		2	1.50	2.40		7.20			
						26.10			
						184.21	Sqmt	**1764.72**	**325074.66**
	Basic Rate:	1632.00							
	Add: Lift Charges for First Floor	2.00							
	Total	1634.00							
	Area Weightage @ 8%	130.72							
	Total	1764.72							
28	Fabrication supplying and erecting **M.S. tubular trusses** of all spans as per approved drawing & design with prefabricated steel applications using quality material and are durable, reliable and corrosion and abrasion resistant. Welding shall confirm to latest structural welding code. Quality shall be on various parameters like shape, size, design gauge and polish. The entire trusses is anchored in RCC column by using 4 nos of M.S. anchor bolts at each support with 10mm thick base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S. pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, etc., complete as per specification								
	S.R Page no 43, item no 7.29								
	Total Area = 32.45mtr x 17.35mtr = 563.01 Sqm								
	= 6057.98 Sft x 5.00 kgs/sft								
						30289.9	**Kgs**	**126.36**	**3827431.76**
	Basic Rate:	111.00							
	Add: Lift Charges for First Floor	6.00							
	Total	117.00							
	Area Weightage @ 8%	9.36							
	Total	126.36							
29	Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755 550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses. with all lead and lift and directions of the Engineer-In-charge of the work								
	Specification to be Drafted								
		1	32.45	17.35		563.01			
		688.00				**563.01**	Sqm	**749.52**	**421985.38**
	Basic Rate:								

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	Add: Lift Charges for First Floor	6.00							
	Total	694.00							
	Area Weightage @ 8%	55.52							
	Total	749.52							
30	Providing, fabricating and fixing of **stick type structural glazing** using Alluminium Extrusions of 63.5 mm x 58.00 mmx 2.25 mm of 1.73 kgs/mtr for vertical and Horizontal members and 63.5 mm x 38.1 x 1.33mm of 0.759 kg/Mtr, as outer frame with Electro Anodized Paint coated block finishing, using 6mm thick imported glass reflective hard coated ocean blue raw glass with all necessary accesories like ultra glass Silicon sealant of Space tape, Masking tape, Galvanized Anchaor bolt, machine screws, 6mm thick M.S. angle 50mm x 150mm x 6mm M.S. Galvanized L Brackets, structural sealent setting clocks, fasteners, wall connection etc., complete.								
	S.R.page 40 I,.No.7.20								
	Swimming Pool Side	1	30.60	3.00		91.80			
		2	2.00	3.00		12.00			
						103.80	Sqmt	**7191.72**	**746500.54**
	Basic Rate:	6653.00							
	Add: Lift Charges for First Floor	6.00							
	Total	6659.00							
	Area Weightage @ 8%	532.72							
	Total	7191.72							
31	Providing and fixing of Door locking arrangements(page XV,item no 392)								
			11			11.00	**Each**	**550.85**	**6059.35**
32	Providing and fixing of Handles powder coated 150mm(page XV,item No,388)								
			33			33.00	**Each**	**50.85**	**1678.05**
33	Providing and fixing of Hinges 5" heavy duty(Page No.XV,item No390)								
			33			33.00	**Each**	**31.36**	**1034.88**
34	Providing and fixing of Hold fasts MS (Page No XV, item No 391)								
			44			44.00	**Each**	**32.20**	**1416.80**
35	Providing and fixing of Tower bolt 300mm long(page No,XVI, item No 407)								
			22			22.00	**Each**	**101.69**	**2237.18**
						Grand Total			**8846009.59**

CERTIFICATES

1) The work spot has been inspected and found to be necessary.
2) This estimate is prepared as per KPWD SR. of 2018-19 & Approved Rates.
3) The provisions were made in this estimate are necessary and adequate.
4) This works come under B.B.M.P. limits.
5) The work is not spilt up.

A.E.E.

J.E.

20/01/2020

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	GYM ITEMS								
1	Supply and Installation of Treadmills of Speed: 0.5 ~ 25km / h (0.3 ~ 15mi /h), AC3Hp (10.5Hp max) Power of the motor. Incline Rate : 0% ~ 16%, Input power : 120V or 220V, 50Hz~60Hz Features : self tracking roller, antiskid grippers, USB socket, shock absorption system, convenience function, wireless mobile recharger , wireless heart measurement, pre-lubricated deck, Running area W530 X L1600mm (21"x63"), maximum user weight 200kgs.Display info : time, distance, calorie, speed, incline, heart rate. Inclusive of All Taxes and Transportation Charges								
		No		1.00		1.00	**Each**	**678895.00**	**678895.00**
2	Supply and Installation of Bike of BH H775 of Technical specifications:-resistance level: 8 levels, no-friction magnetic resistance. power : 1.5 volts x 2, aa size battery. fly wheel : 5 kgs precision balanced Drive system : center design drive, super silent poly-v belt driven. Pedals : self balanced with adjustable straps. Seat : ergonomically designed easy seat with flex back cushion contoured for lumbar support with horizontal slide adjustment Handle bars : side handle bar with contact heart rate sensor and u bar style front Handle. display : lcd display, single window computerized console. Display : multi read out instantly displays time, speed, distance, calories, pulse, odo and scan. user weight : 100 kgs .Frame structure : extra sturdy and stable steel frame construction for maximum durability and stability, frame to be finished with proprietary two coat powder process. Inclusive of All Taxes and Transportation Charges								
		No		1.00		1.00	**Each**	**264631.00**	**264631.00**
3	Supply and Installation of Rowing of Inspire Fitness Cross Rower : Heavy-duty steel COLOR-Matte black, chrome & red FINISH Electrostatic powder coat FLYWHEEL 30 lbs (14 kgs) with silent drive chain RESISTANCE SYSTEM Magnetic Display - LCD touch panel (6V, 4D size batteries) BLUETOOTH Ready to connect to heart rate monitoring devices BUILT-IN Tablet, water & personal item storage Tilt upright, on front end to store MAX USER WEIGHT 300 lbs (136 kgs) WARRANTY Residential: Limited 10y frame, 3y parts, 1y labor; Light Commercial: 10y frame, 2y parts, 1y labor; Full Commercial: 5y frame, 1y parts, 6m labor DIMS (W X L X H) 35 in x 76 in x 44 in (89 cm x 193 cm x 112 cm) WEIGHT 225 lbs (102 kgs) Inclusive of All Taxes and Transportation Charges								
		No		1.00		1.00	**Each**	**277100.00**	**277100.00**
4	Supply and Installation of Lexco Seated Chest Press : Product size: W1,437 × L1,430 × H1,940mm (56.6 "× 56.3" × 76.4 ") Weight: 282kg (622lb) block weight: 100kg (220lb) Material: involute pipe 50 X 105 3.0T outer cover : ABS material double sided block cover urethane foam (memory foam) sheet Characteristic Improved muscle handle angle implementing the shrinkage start bar to control the movement start position to expand the range of motion step 10 the gas spring absorber + rack gear type elevator saddle ABS material covers both sides of the block. Inclusive of All Taxes and Transportation Charges								
		No		1.00		1.00	**Each**	**433988.00**	**433988.00**
5	Supply and Installation of Lat Pull Specifications Dimensions : W1.095 x L1,615 X H2,242 mm (43.1"x63.6"x88.3") Product Weight : 255Kg (562lb) Stack Weight : 100kg (220lb) Features Height adjustable thigh pads providing stability Greater feeling of thigh pad grips ABS material both-side stack cover. Inclusive of All Taxes and Transportation Charges								
		No		1.00		1.00	**Each**	**348413.00**	**348413.00**
6	Supply and Installation of Smith Machine of Specifications Dimensions : W1.844 x L1,350 X H2,230 mm (72.6"x53.2"x87.8") Product Weight : 188Kg (415lb) Features Rotating handle bar helping exercise start/stop 10kg of weight helping user's exercise 12 racking positions and 4 plate storage horns Improved feeling of 10kg dual weight clapper. Inclusive of All Taxes and Transportation Charges								
		No		1.00		1.00	**Each**	**375308.00**	**375308.00**
8	Supply and Installation of Assisted Chin/Dip of Specifications Dimensions : 1,137×L1,318×H2,273mm (44.7×51.8"×89.4"") Product Weight : 256kg (564lb) Stack Weight : 75kg (165lb) Features Rotating handles allow users of all the size Dual chinning handles providing variety of exercise Knee pads designed for easy start and finish of workout ABS material both-side stack cover. Inclusive of All Taxes and Transportation Charges								
		No		1.00		1.00	**Each**	**447435.00**	**447435.00**
9	Supply and Installation of Arm Curl of Specifications Dimensions : W1.410 x L1,080 X H1,506 mm (55.5"x42.5"x59.3") Product Weight : 226Kg (498lb) Stack Weight : 75kg (165lb) Features Much improved handle angle for muscle contraction Separately moving handles Comfortable start/stop handles ABS material both-side stack cover Elbow pads for stability 10-steps gas shock absorber type seat position adjustment. Inclusive of All Taxes and Transportation Charges								
		No		1.00		1.00	**Each**	**437655.00**	**437655.00**

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
10	Supply and Installation of Abdominal of Specifications Dimensions : W1.284 x L1,246 X H1,506 mm (50.6"x49.1"x59.3") Product Weight : 237Kg (523lb) Stack Weight : 100kg (220lb) Features Elbow pads and large handles providing stabilization 10-steps gas shock absorber type seat position adjustment ABS material both-side stack cover. Inclusive of All Taxes and Transportation Charges								
		No		1.00		1.00	Each	389978.00	389978.00
11	Supply and Installation of Elliptical of Resistance Level: 20 Levels, Power Requirements : 120 volts, Set up height : 4, 10 Workout Programs :Manual, random, interval, custom interval, 10K Features : Heart rate monitoring, space-efficient footprint, patented Multi Grip handlebars, water bottle holder, Workout boosters X-Mode, Arm Blaster, Glute Kicker, Dedicated logic programming, quick start, auto quick start, cool down, heart logic intelligence, wireless & Digital heart rate, Heart rate-controlled programs, maximum user weight 180kgs. Inclusive of All Taxes and Transportation Charges								
		No		1.00		1.00	Each	270174.00	270174.00
							Total		3923577.00

CERTIFICATES

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3) The provisions were made in this estimate are necessary and adequate.
4) This works come under B.B.M.P. limits.
5) The work is not spilt up.

H.V. 20/01/2022

Asst Engg

PLUMBING WORKS

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BRUHAT BANGALORE MAHANAGARA PAILKE

CONSTRUCTION OF GYM ROOM EXISTING SWIMMING POOL OFFICE BUILDING & OTHER DEVELOPMENT WORKS IN ALLALASANDRA WARD NO.04 YELAHANKA

PLUMBING WORKS

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	Plumbing items								
1	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (external work). - 20mm nominal OD pipes								
	Pg No 99 It No 13.87.3 of PWD SR 2018-19								
		1	125			125	M	157.68	19710.00
	Basic rate	146.00							
	Area Weightage 8%	11.68							
	Final Rate	157.68							
2	Providing white vitreous china clay Indian pattern squatting urinals with white glazed foot rests of approved quality and make conforming to ISI specifications and fixing in Position with M-15 as directed of size 50.8 cms X 38 cms X 10.16 cms - A Grade (Rate includes cost of all materials and conveyance to work spot). (P.No. 88, I.No. 12.110 of PWD SR 2015-16)								
	Pg No 90It No 12.110 of PWD SR 2018-19								
			4			4.00	Each	1026.00	4104.00
	Basic rate	950.00							
	Area Weightage 8%	76.00							
	Final Rate	1026.00							
3	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 12.5cms x 7.5cms								
	Pg No90 It No 12.113.2 of PWD SR 2018-19								
			8			8.00	Each	307.80	2462.40
	Basic rate	285.00							
	Area Weightage 8%	22.80							
	Final Rate	307.80							
4	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia.								
	Pg No 90 It No 12.111 of PWD SR 2018-19								
			8			8.00	Each	162.00	1296.00
	Basic rate	150.00							
	Area Weightage 8%	12.00							
	Final Rate	162.00							
5	KSRB13-6.3-5 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 40mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3 (P.No. 92, I.No. 13.36 of PWD SR 2015-16)								
	Pg No 94 It No 13.36 of PWD SR 2018-19								
	For water line	1	8			0.00	Nos	1123.20	0.00
	Basic rate	1040.00							
	Area Weightage 8%	83.20							
	Final Rate	1123.20							

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BRUHAT BANGALORE MAHANAGARA PAILKE

CONSTRUCTION OF GYM ROOM EXISTING SWIMMING POOL OFFICE BUILDING & OTHER DEVELOPMENT WORKS IN ALLALASANDRA WARD NO.04 YELAHANKA

PLUMBING WORKS

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	Plumbing items								
1	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (external work). - 20mm nominal OD pipes								
	Pg No 99 It No 13.87.3 of PWD SR 2018-19								
		1	125			**125**	**M**	**157.68**	**19710.00**
	Basic rate	146.00							
	Area Weightage 8%	11.68							
	Final Rate	157.68							
2	Providing white vitreous china clay Indian pattern squatting urinals with white glazed foot rests of approved quality and make conforming to ISI specifications and fixing in Position with M-15 as directed of size 50.8 cms X 38 cms X 10.16 cms - A Grade (Rate includes cost of all materials and conveyance to work spot). (P.No. 88, I.No. 12.110 of PWD SR 2015-16)								
	Pg No 90It No 12.110 of PWD SR 2018-19								
			4			4.00	**Each**	1026.00	4104.00
	Basic rate	950.00							
	Area Weightage 8%	76.00							
	Final Rate	1026.00							
3	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 12.5cms x 7.5cms								
	Pg No90 It No 12.113.2 of PWD SR 2018-19								
			8			8.00	**Each**	307.80	**2462.40**
	Basic rate	285.00							
	Area Weightage 8%	22.80							
	Final Rate	307.80							
4	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia.								
	Pg No 90 It No 12.111 of PWD SR 2018-19								
			8			8.00	**Each**	162.00	**1296.00**
	Basic rate	150.00							
	Area Weightage 8%	12.00							
	Final Rate	162.00							
5	KSRB13-6.3-5 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 40mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3 (P.No. 92, I.No. 13.36 of PWD SR 2015-16)								
	Pg No 94 It No 13.36 of PWD SR 2018-19								
		1	8			0.00	**Nos**	1123.20	**0.00**
	For water line	1040.00							
	Basic rate	83.20							
	Area Weightage 8%	1123.20							
	Final Rate								

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
6	KSRB13-6.1-3 : Providing and fixing in position brass bib cock of approved quality 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3								
	Pg No 93 It No 13.25 of PWD SR 2018-19								
			10			10.00	**Each**	254.88	**2548.80**
	Basic rate	236.00							
	Area Weightage 8%	18.88							
	Final Rate	254.88							
7	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11								
	Pg No 83 It No 12.24of PWD SR 2018-19								
			3			3.00	**Each**	3400.92	**10202.76**
	Basic rate	3149.00							
	Area Weightage 8%	251.92							
	Final Rate	3400.92							
8	KSRB 12.5:-Providing and fixing white vitreous china clay ,water closet European type (Pedestal type P-trap) with solid plastic seat and lid CP brass hinges rubber buffers 10Ltr low level P.V.C flushing cistern (all are approved make)with fittings C.I/M.S bracket.40mm diameter flush bend with fittings and clamps ,overlap,over flow arrengement with specialand 25mm mosquito proof coupling of approved design painting of fitting and brackets cuttingand making good all the wall floor wherver required ,including cost of all materials labour complete as per specification								
	Pg No 79It No 12.5of PWD SR 2018-19								
			4.00			4.00	**Each**	**5352.48**	**21409.92**
	Basic rate	4956.00							
	Area Weightage 8%	396.48							
	Final Rate	5352.48							
9	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 160mm outer dia								
	Pg No 77 It No11.56.4of PWD SR 2018-19								
	For sanitory lines								
		1	75			75.00	**m**	**1352.16**	**101412.00**
	Basic rate	1252.00							
	Area Weightage 8%	100.16							
	Final Rate	1352.16							
10	KSRB12.43:- Providing and fixing 1500x450mm dia rectangular shape mirror with plastiv moulded frame of approved make and shades with 6mm thick hard board backing incul;ding cost of materilas labour complete as per specification								
	Pg No 85 It No12.36of PWD SR 2018-19								
		2.00				2.00	**No**	**1599.48**	**3198.96**
	Basic rate	1481.00							
	Area Weightage 8%	118.48							
	Final Rate	1599.48							
							Total		**166344.84**

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BRUHAT BANGALORE MAHANAGARA PAILKE

CONSTRUCTION OF GYM ROOM EXISTING SWIMMING POOL OFFICE BUILDING & OTHER DEVELOPMENT WORKS IN ALLALASANDRA WARD NO.04 YELAHANKA

ELECTRICAL WORKS

Sl.No	DESCRIPTION/SPECIFICATION	UNIT	QTY	RATE	AMOUNT
	PART-A INTERNAL WIRING				
1	**Open Conduit System** Supplying heavy gauge PVC conduit pipe .....dia .....mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.				
a)	19/20mm dia 2mm thick. (P.N0.2 ,I.No. 1.1.1)	Mtr		54	0.00
b)	25mm dia 2mm thick. (P.N0.2 ,I.No. 1.1.2)	Mtr		70	0.00
c)	32mm dia 2.5mm thick. (P.N0.2 ,I.No. 1.1.3)	Mtr		100	0.00
2	**Groove cutting in walls** Supplying heavy gauge PVC Conduit Pipe ....dia ....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.				
a)	19/20mm dia 2mm thick (P No 2 ; I No 1.3.1)	Mtr		56.00	0.00
b)	25mm dia 2mm thick (P No 2 ; I No 1.3.2)	Mtr		58.00	0.00
c)	32mm dia 2.5mm thick (P No 2 ; I No 1.3.3)	Mtr		88.00	0.00

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Sl.No	DESCRIPTION/SPECIFICATION	UNIT	QTY	RATE	AMOUNT
3	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, screws at an interval of 300mm .... etc. as required.25mm (P.N0 3,1.8.2)	Mtr	300	26.00	7800.00
	WIRES & CABLES				
5	**Point wiring using Copper wire without switch**. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2X1.5Sq.mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet. GROUP A				
a)	Short point upto 3Mtr from tapping point to out let via switch (P No 5 ; I No 2.3.1)	Pts	30	144	4320.00
b)	Medium point above 3M. upto 6M from tapping point to out let via switch (P No 5 ; I No 2.3.2)	Pts	20	215	4300.00
c)	Long point above 6Mtr. upto 10M from tapping point to out let via switch (P No 5 ; I No 2.3.3)	Pts	10	334	3340.00
d)	Two outlet in a row, above 3Mtr upto 6Mtr from tapping point to out let via switches (P No 5 ; I No 2.3.4)	Pts		334	0.00
6	**Wiring for lighting/power circuit** using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.				
a)	1.5 sqmm (P.No. 6, I.No.2.5.2)	Mtr	200	18.60	3720.00
b)	2.5 sqmm (P.No. 6, I.No.2.5.3)	Mtr	600	29.20	17520.00
c)	4 sqmm (P.No. 6, I.No.2.5.4)	Mtr	1000	42.10	42100.00
d)	6 sqmm (P.No. 6, I.No.2.5.5)	Mtr		63.80	0.00
e)	10 sqmm (P.No. 6, I.No.2.5.6)	Mtr		108.00	0.00

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Sl.No	DESCRIPTION/SPECIFICATION	UNIT	QTY	RATE	AMOUNT
7	Supplying and **flush mounting powder coated / galvanized metal box** suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall				
a)	1-3Way(P.NO 15,3.5.1)	No	20	91.00	1820.00
b)	4-5Way(P.NO 15,3.5.2)	No	8	98.00	784.00
c)	8Way(P.NO 15,3.5.4)	No	4	140.00	560.00
d)	10-12Way(P.NO 16,3.5.5)	No	12	159.00	1908.00
8	Supplying and fixing **superior quality modular switch mounting polycarbonate plate** with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.				
a)	1 to 3 Module(P.NO 16,3.6.1)	No	6	109.00	654.00
b)	4 Module(P.NO 16,3.6.2)	No	6	122.00	732.00
c)	8 Module(P.NO 16,3.6.4)	No	12	200.00	2400.00
d)	12 Module(P.NO 16,3.6.6)	No	20	267.00	5340.00
9	Supplying and fixing of **modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket** etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A				
a)	6Amps one way.(P.NO 16,3.7.1)	No	15	63.00	945.00
b	6Amps two way.(P.NO 16,3.7.2)	No	12	87.00	1044.00
c)	6Amps 3way socket.(P.NO 16,3.7.3)	No	15	95.00	1425.00
d)	Stepped Fan Regulator.(P.NO 16,3.7.4)	No	4	286.00	1144.00
e)	16Amps one way switch .(P.NO 16,3.7.7)	No	12	114.00	1368.00
f)	6/16Amps universal socket.(P.NO 16,3.7.10)	No	12	147.00	1764.00
g	TV/Tel phone socket.(P.NO 16,3.7.11)	No		82.00	0.00
h	RJ45/ I.O. outlet.(P.NO 16,3.7.12)	No		204.00	0.00
10	Supplying 50mm **wooden plug**, tapered from 50x50mm to 25x25mm and fixing by using binding wire before concreting a roof slab.(P.NO 17,3.12)	No		6.80	0.00

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Sl.No	DESCRIPTION/SPECIFICATION	UNIT	QTY	RATE	AMOUNT
11	Supplying and fixing regular MCCB distribution Panel confirming to IS 8828, on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing of suitable type capacity MCCB's as an incomer for 3 phase Double door with necessary bus bar completely wired to use on 440Volts 3phase 4 wire powder coated painting etc., complete with a provision for fixing of single/three phase suitable capacity MCCB/MCB's as outgoings confirming to IS8828.				
a)	8 way (P.No. 47, I.No. 6.15.2)	No		9095.00	0.00
12	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.II - Double Door				
a)	12 way SPN (P.No. 47, I.No. 6.17.6)	No		1622.00	0.00
13	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.				
a)	5-32 Amps SP. Group'A' (P.No. 47, I.No. 6.16.1)	No		418.00	0.00
b)	5-32 Amps DP. Group'A' (P.No. 47, I.No. 6.16.3)	No		849.00	0.00
c)	40-63 Amps TPN. Group'A' (P.No. 47, I.No. 6.16.)6	No		1936.00	0.00
14	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker [ELMCB] 240/450V up to 300mA sensitivity on existing wood/panel board.				

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Sl.No	DESCRIPTION/SPECIFICATION	UNIT	QTY	RATE	AMOUNT
a)	16-25 Amps 2 pole (P.No. 47, I.No. 6.18.2)	No		2412.00	0.00
15	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.				
a)	4 sqmm(P.No. 64 I.No. 7.21.3)	No		6.25	0.00
b	6 sqmm(P.No. 64 I.No. 7.21.4)	No		6.25	0.00
c)	10 sqmm(P.No. 64 I.No. 7.21.5)	No		7.65	0.00
16	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts. (P.No.55 I.No. 7.2)	No		4317	0.00
17	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire				
	GI Wire				
	8 SWG (P.No.70 I.No. 7.22)	Mtrs		19.50	0.00
18	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. GI strip				
a)	GI Strip. 25x3mm(P No 55; I No 7.3.1)	Mtr		77.00	0.00

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Sl.No	DESCRIPTION/SPECIFICATION	UNIT	QTY	RATE	AMOUNT
19	LED Indoor Supplying of 2' feet - LED PVC Square Batten ..W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical condition				
a)	2' -14 watts (P No 25 ; I No 4.29.1)	No	8	600.00	4800.00
b)	4' -28 watts (P No 25 ; I No 4.29.2)	No		1774.00	0.00
20	Supplying and fixing cast Aluminum round or oblong type bulk head fitting with GI wire guard, glass cover with 15Watts 230V CFL lamp..(P.NO 20, 4.4)	No		952	0.00
21	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm)				
a)	Regular model (P.No.78, I.No.9.3.1)	No		2376.00	0.00
22	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete.				
a)	15" Sweep (450mm)(P.No.78, I.No.9.2.2)	No		4394.00	0.00
23	Fixing all types and all capacities fluorescent/false ceiling/spot light/ CFL fittings indoor on the wall/ ceiling/rafters/girders using 23/0.0076" twin PVC insulated wires, required nos of round blocks and clamps (if required)				
a)	On wall/ ceiling/Rafter/ Girders (P.No. 108 I.No. 17.7.1)	No		98.00	0.00

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Sl.No	DESCRIPTION/SPECIFICATION	UNIT	QTY	RATE	AMOUNT
24	Fixing a ceiling/wall mounting fan of all capacities and all types with necessary clamps and S hook made out of 15mm dia MS rod, with 5 amps ceiling rose of approved quality with necessary length of 23/0.0076 inch PVC insulated twin twisted wire of approved quality with regulator mounted on a suitable size wooden board and wired complete.				
a)	(P No109 ; I No 17.9)	No		139.00	0.00
25	Fixing one exhaust fan after making a suitable nitch in the wall and finishing with cement mortar and colouring to match the existing wall or brackets, with bolts and nuts and a 5 amps, ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core wire of approved make with wire mesh and wooden frame.				
a)	(P No109 ; I No 17.11)	No		412.00	0.00
26	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.				
a)	4 core 16 sqmm(P No 55 ; I No 7.4.4)	mtrs		140.40	0.00
27	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct.				
a)	6 sqmm to 16 sqmm (P.No. 61 I.No. 7.8.1)	Mtr		10.80	0.00

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Sl.No	DESCRIPTION/SPECIFICATION	UNIT	QTY	RATE	AMOUNT
28	Supplying and drawing PVC flexible one pair telephone unarmoured tinned copper cable.(P No85 ; I No 11.2.2)	mtrs		13.00	0.00
29	Supplying and drawing PVC insulated gas injected physical foam jelly flooded co-axial TV cable.RG-6.(P No85 ; I No 11.3)	mtrs		35.00	0.00
30	Supplying and drawing UTP-CAT 6E LAN cable.(P No85 ; I No 11.1)	mtrs		23.00	0.00
31	Supplying, erecting, testing & commissioning of OFF-LINE UPS system suitable for operation on 230V, 50Hz, A/C supply, with all accessories complete and Excluding batteries and wiring complete.				
a	2 KVA OFF LINE UPS Two Hour back up Excluding 3x 120Ah batteries(P.No.88, I.No.12.2.4)	No		24352	0.00
32	Supplying, installation, testing & commissioning of 12V DC, AH batteries in poly propylene container for U.P.S. Low maintenance Tubular batteries.				
a	12 V ,120 AH capacity. Acid Battery.(P.No.89, I.No.12.4.5)	No		18700	0.00
	PART-A INTERNAL WIRING GRAND TOTAL				109788.00

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